

BOX RLT



BELT DRIVEN BACKWARD CENTRIFUGAL IN SOUNDPROOF

MANUFACTURING FEATURES

- Box manufactured in galvanised steel sheet.
- Backward impeller with self-cleaning system, belt driven motor with high efficiency, maintenance-free belts.
- Standard asynchronous squirrel-cage motor with IP-55 protection and Class F insulation.
- Manufactured with standard voltages: 230/400V 50Hz in three phase motors up to 4kW, and 400/690V 50Hz for higher powers.
- Exchangeable pannels.
- Open outlet.

APPLICATIONS

Designed for inline installation, they are suitable for:

- Air renewal in buildings and industries.
- Maximum continuous operation temperature: 110°C (fluide).
- Maximum ambient temperature: 50°C

UNDER REQUEST

- Special voltages.
- Double skin insulation.

Technical data

Three-phase motor

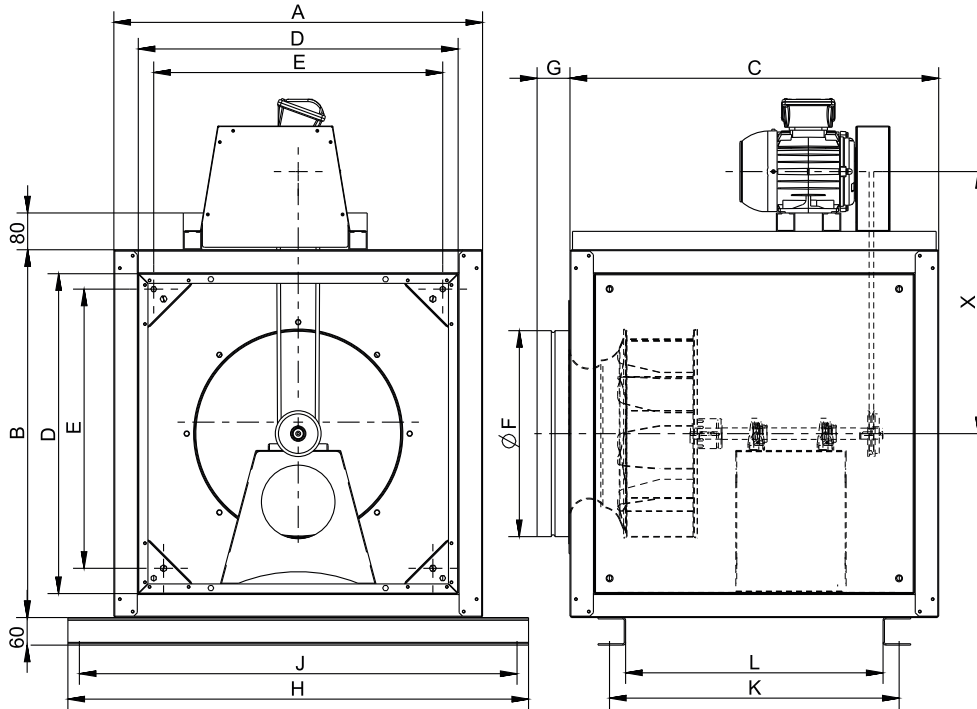
Code	Model	RPM	Min. Rated power kW	Max. Rated power kW	Max. Airflow m ³ /h	Sound db (A)**	Weight*	Connect. diagram
241390176R__	BOX RLT 400	900 - 1700	0,25	0,75	6.130	55	-	1
241480176R__	BOX RLT 450	900 - 1700	0,25	1,50	8.680	61	-	1
241560176R__	BOX RLT 500	900 - 1700	0,37	3	12.000	64	-	1
241650176R__	BOX RLT 560	700 - 1600	0,37	4	14.660	65	-	1
241670176R__	BOX RLT 630	700 - 1500	0,55	5,50	19.950	67	-	1
241770176R__	BOX RLT 710	700 - 1400	1,10	7,50	26.560	70	-	1

Notes:

* The motor is not included in fan weight

** Total sound pressure level at the point of maximum flow measured in dB(A) in the suction measured in free field at a distance of 6m from the source

Dimensions



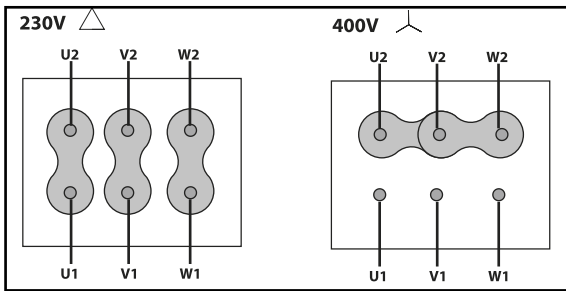
Model	A	B	C	D	E	G	H	J	K
BOX RLT 400	800	800	800	696	628.5	74	1002	952	628.5
BOX RLT 450	800	800	800	696	628.5	74	1002	952	628.5
BOX RLT 500	925	925	925	821	753	74	1127	1077	753
BOX RLT 560	925	925	925	821	753	74	1127	1077	753
BOX RLT 630	1000	1000	1000	892	828	74	1203	1153	828
BOX RLT 710	1000	1000	1000	892	828	74	1203	1153	828

Model	L	X (Mot T. 71)	X (Mot T. 80)	X (Mot T. 90)	X (Mot T. 100)	X (Mot T. 112)	X (Mot T. 132)	ØF
BOX RLT 400	558.5	551	560	-	-	-	-	398
BOX RLT 450	558.5	551	560	570	-	-	-	448
BOX RLT 500	683	614.5	623.5	633.5	643.5	-	-	498
BOX RLT 560	683	614.5	623.5	633.5	643.5	655.5	-	548
BOX RLT 630	758	-	660	670	680	692	712	628
BOX RLT 710	758	-	-	670	680	692	712	698

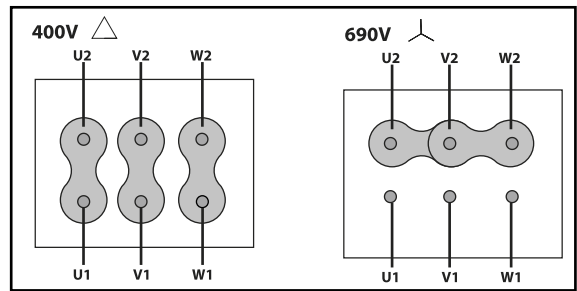
Wiring diagram

DIAGRAM Nº 1

230/400V



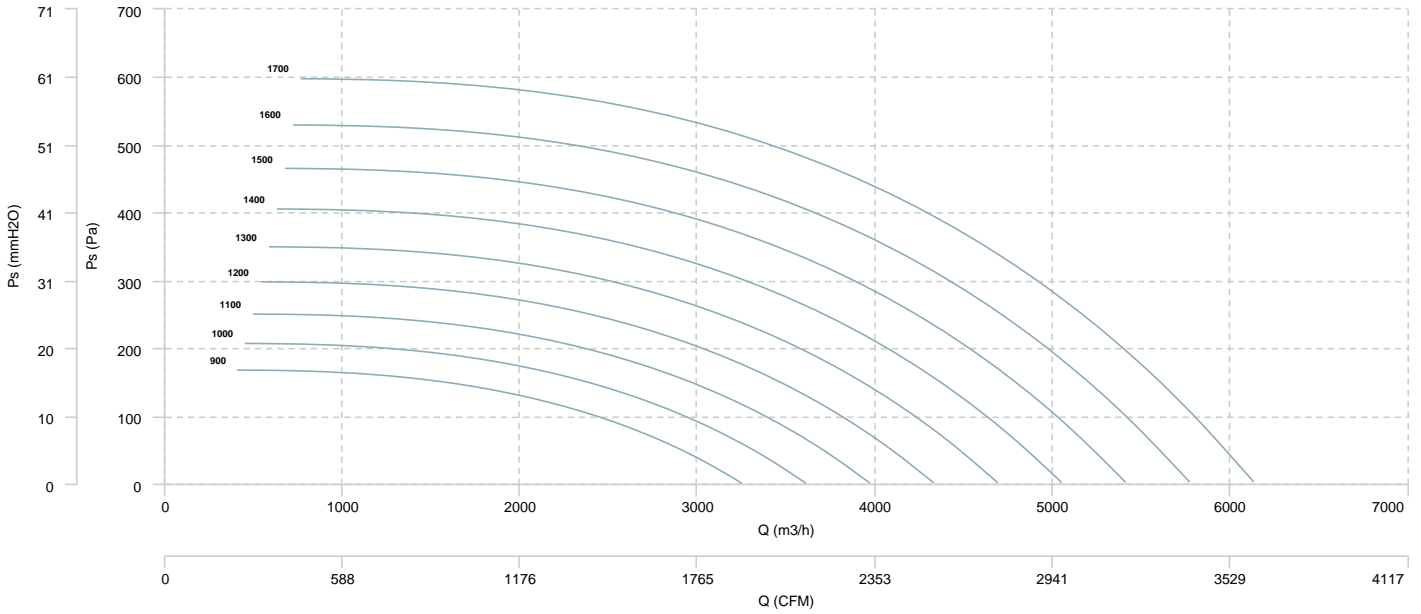
400/690V



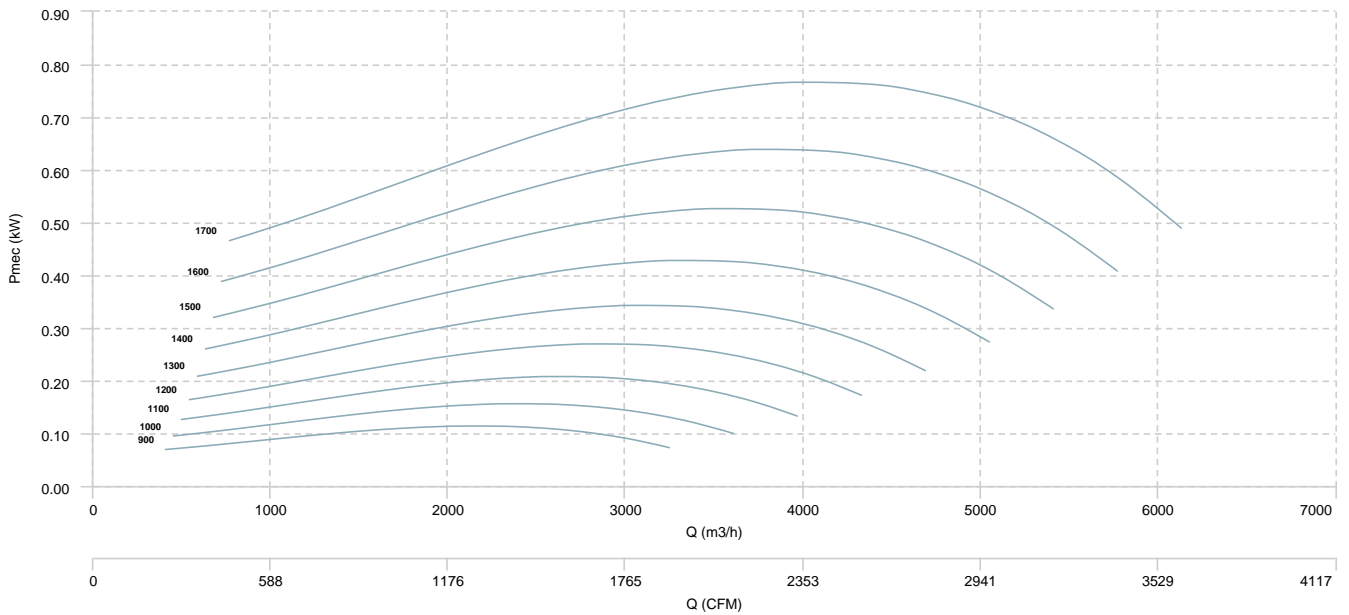
CHARACTERISCTIC CURVE

BOX RLT 400

AIR FLOW - PRESSURE

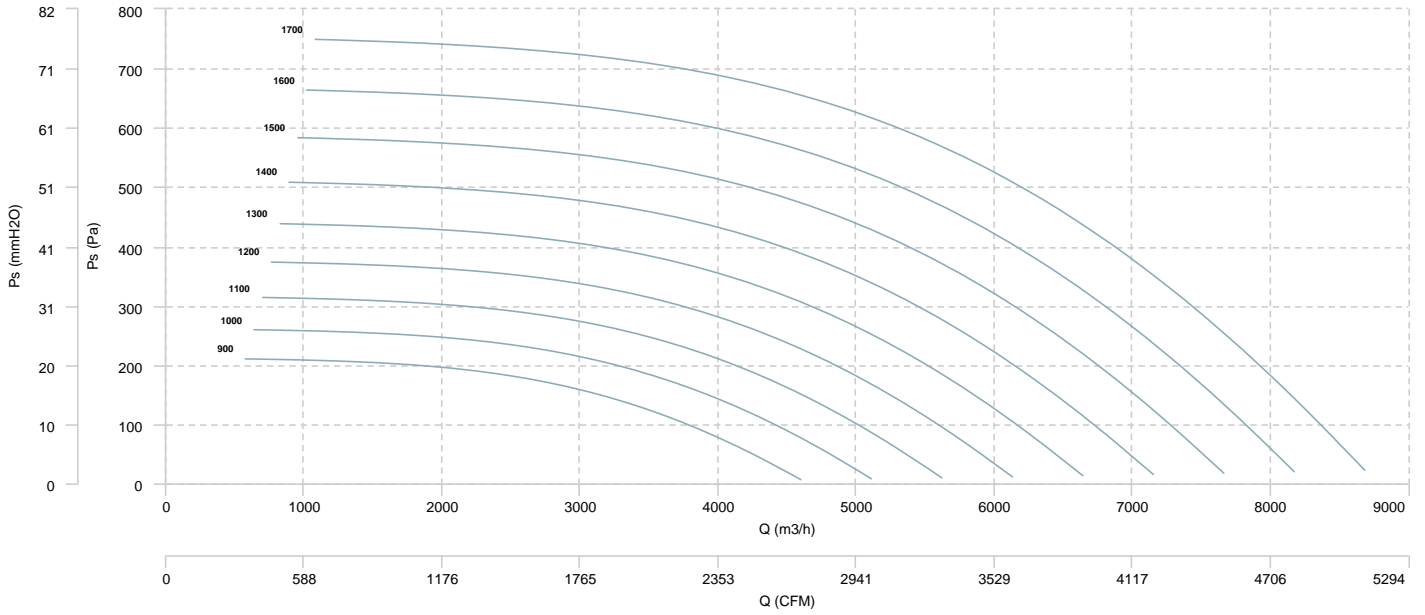


AIR FLOW - MECHANICAL POWER

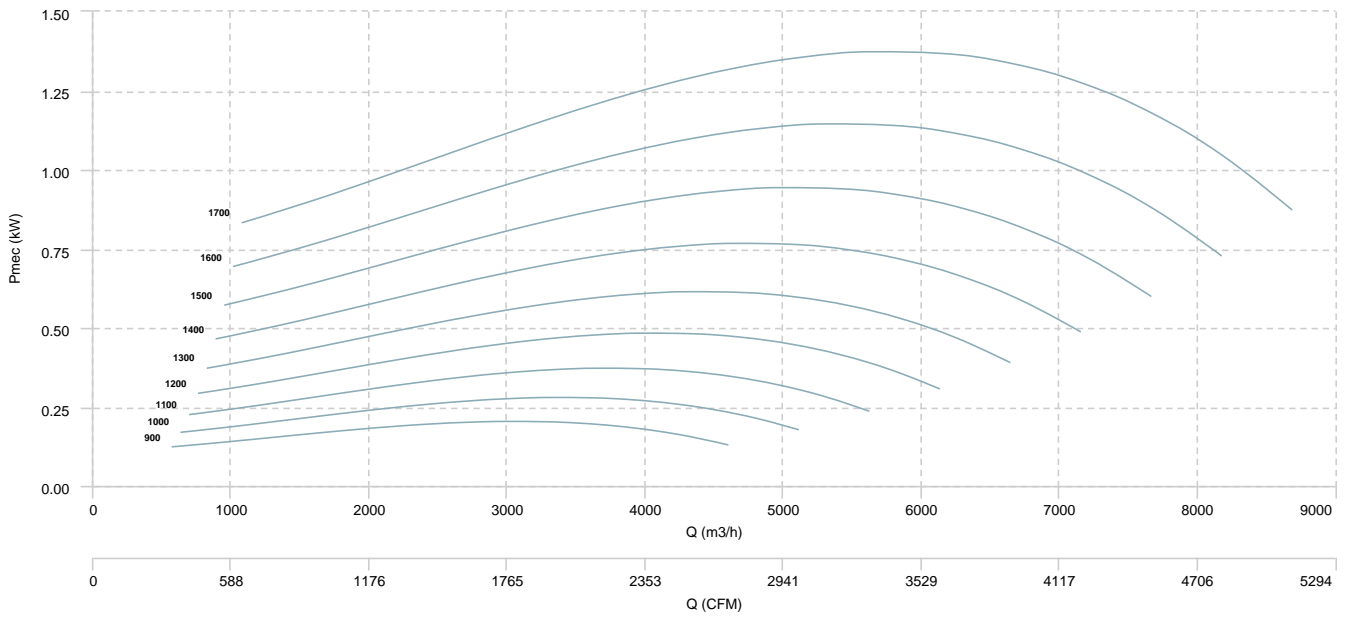


BOX RLT 450

AIR FLOW - PRESSURE

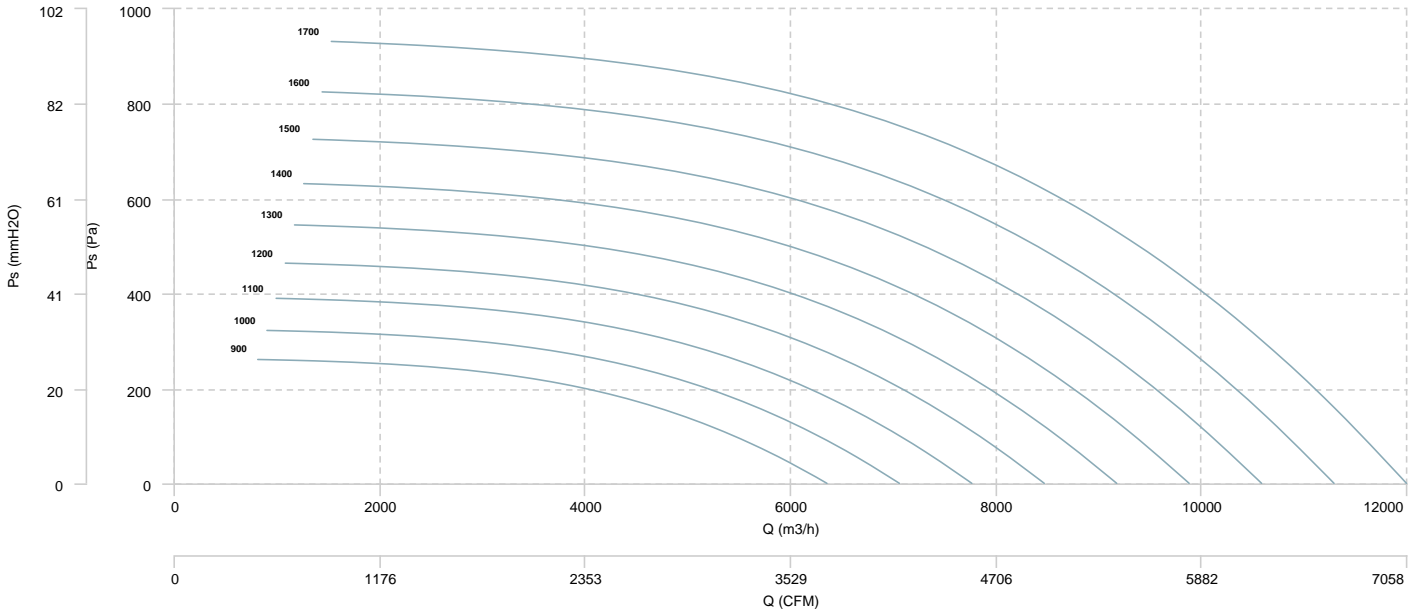


AIR FLOW - MECHANICAL POWER

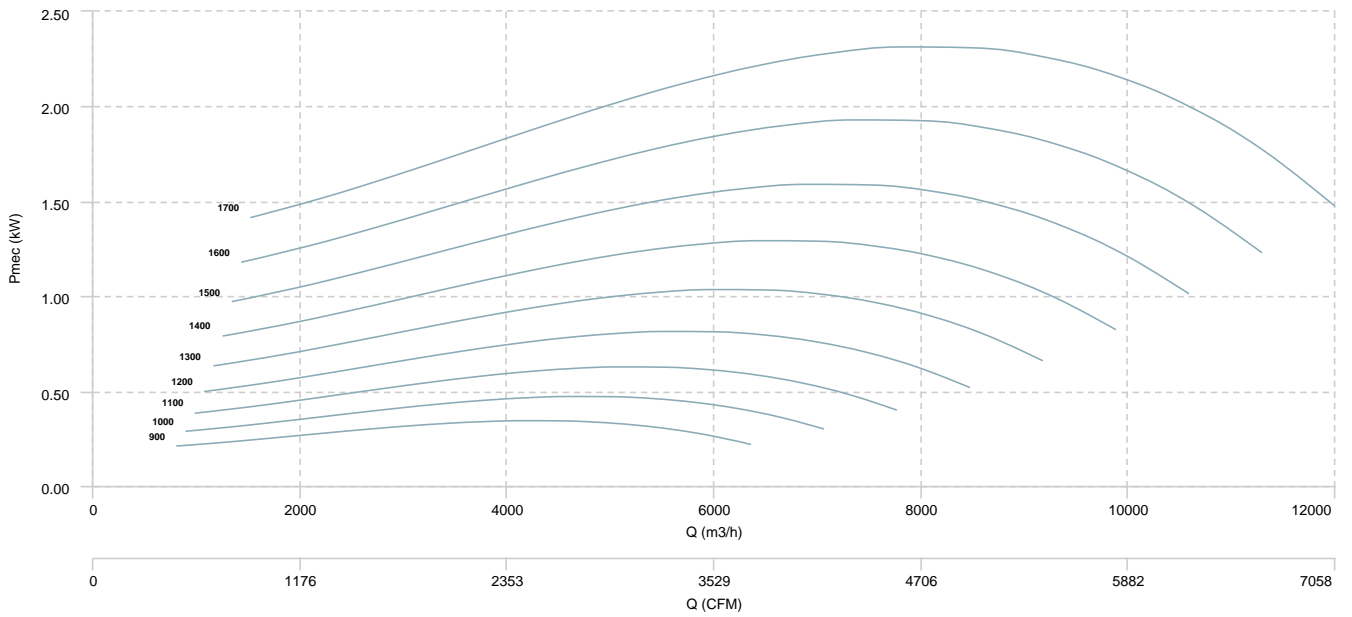


BOX RLT 500

AIR FLOW - PRESSURE

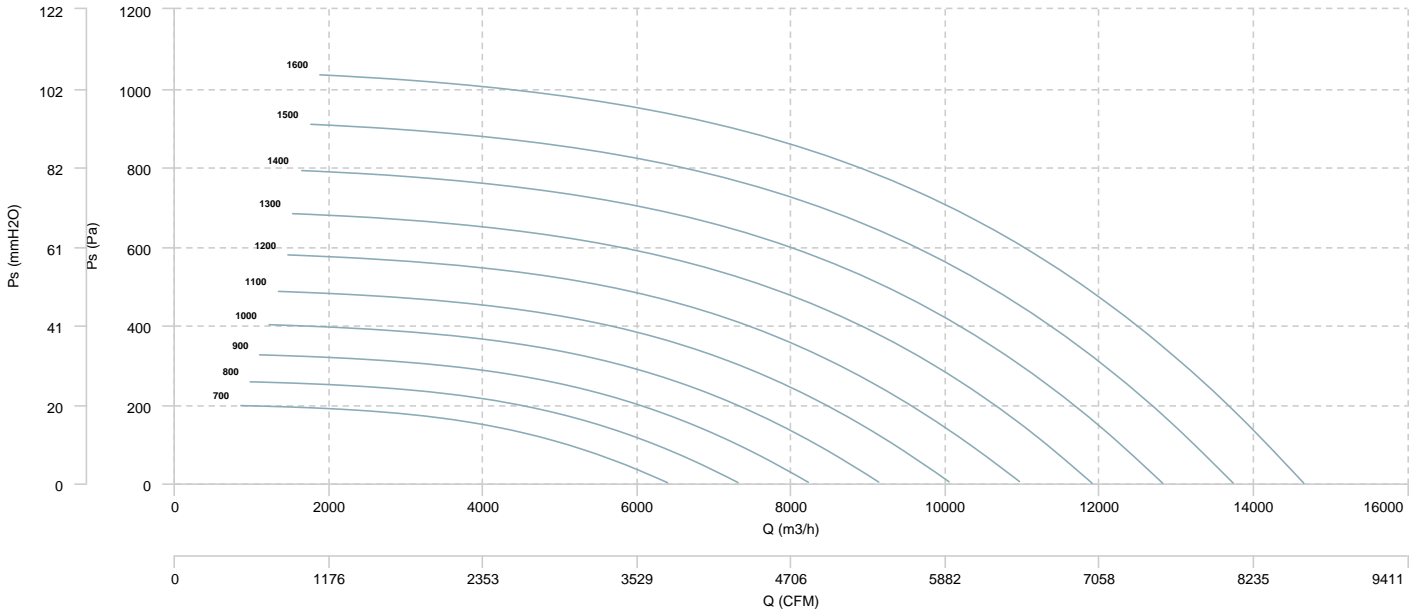


AIR FLOW - MECHANICAL POWER

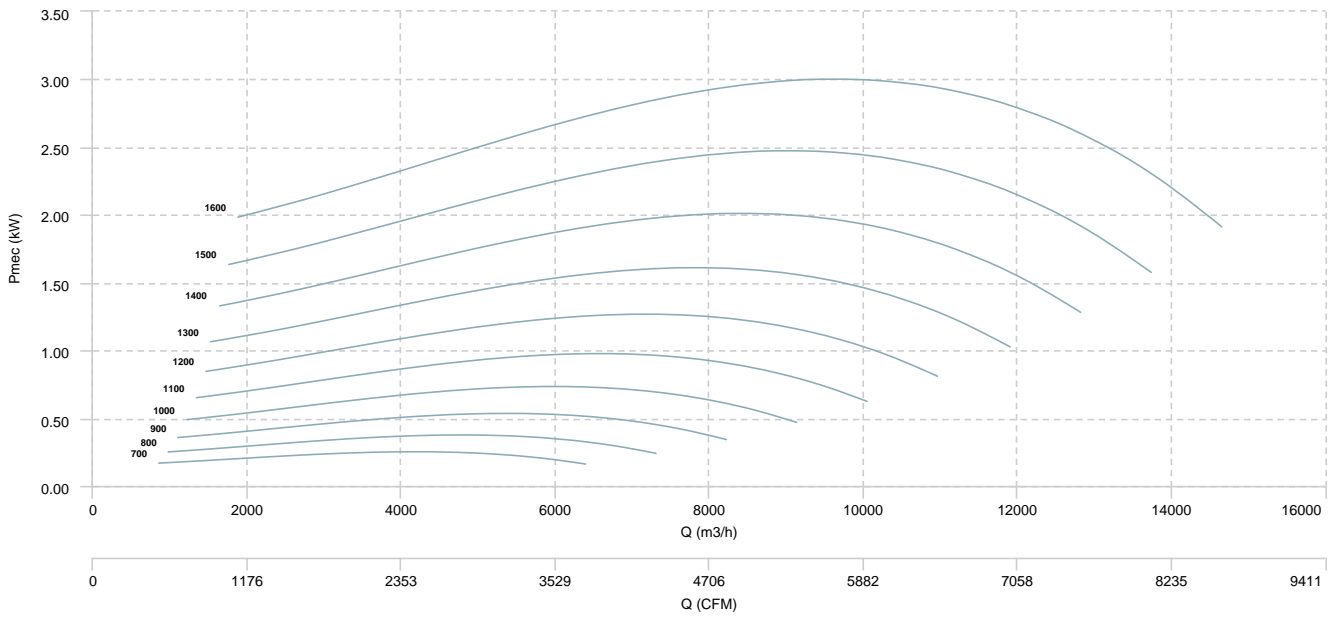


BOX RLT 560

AIR FLOW - PRESSURE

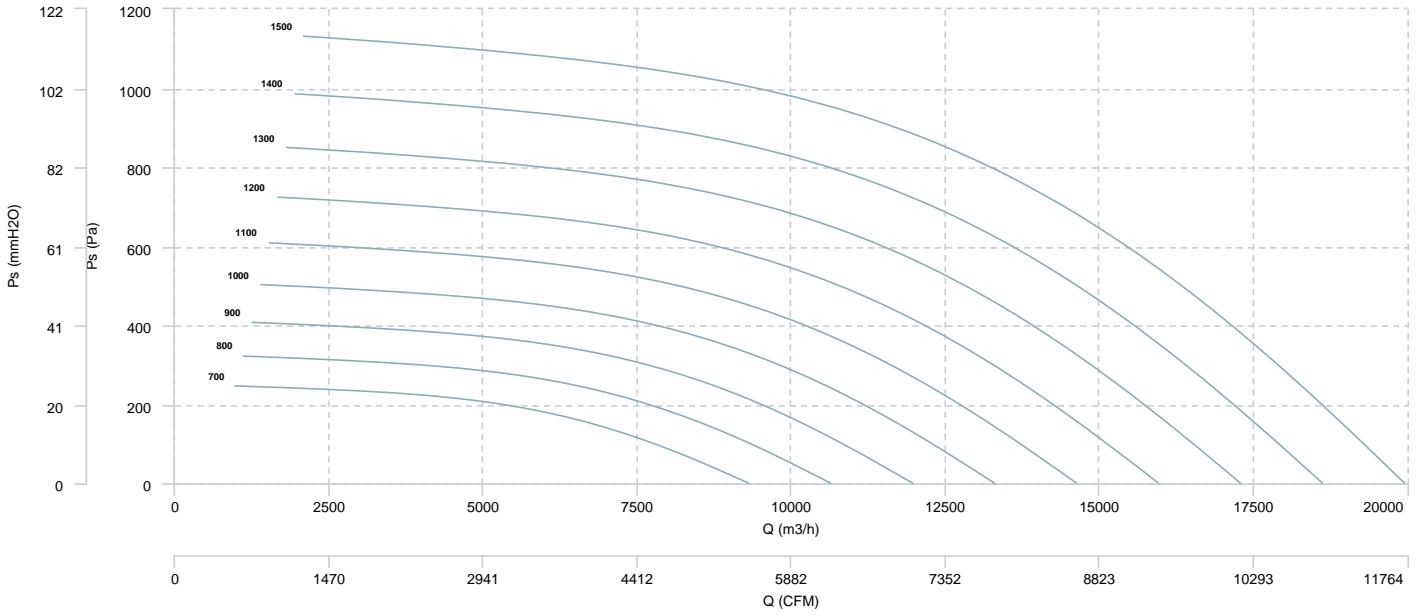


AIR FLOW - MECHANICAL POWER

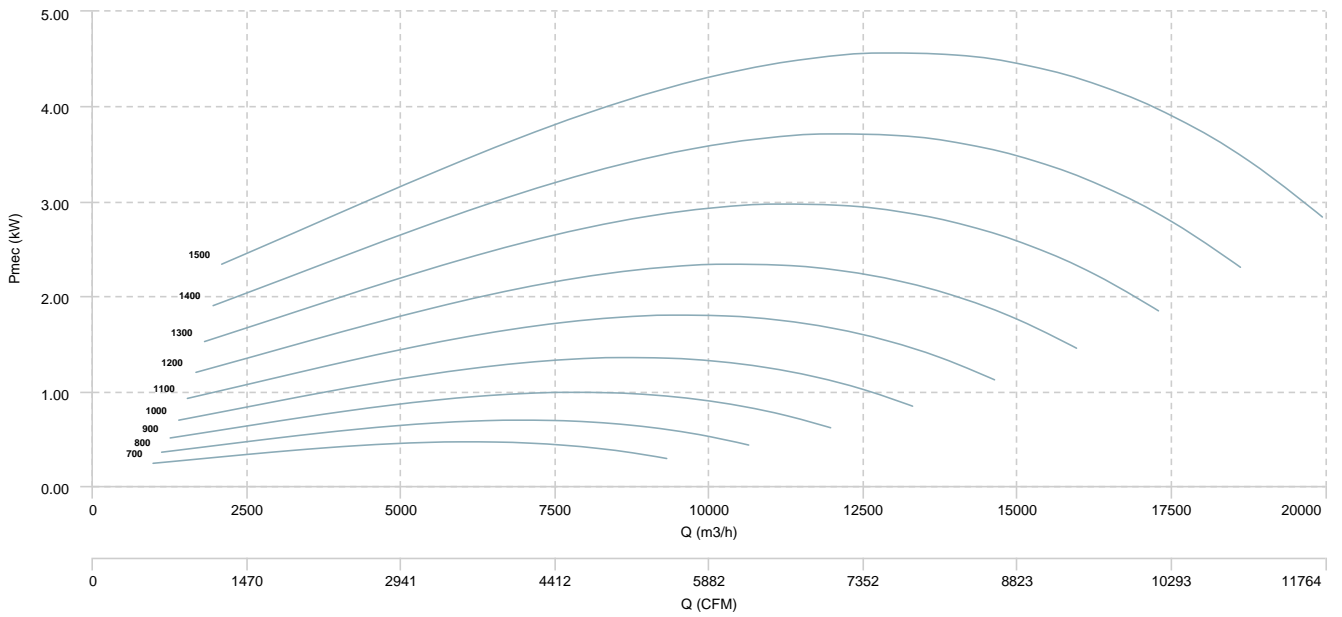


BOX RLT 630

AIR FLOW - PRESSURE

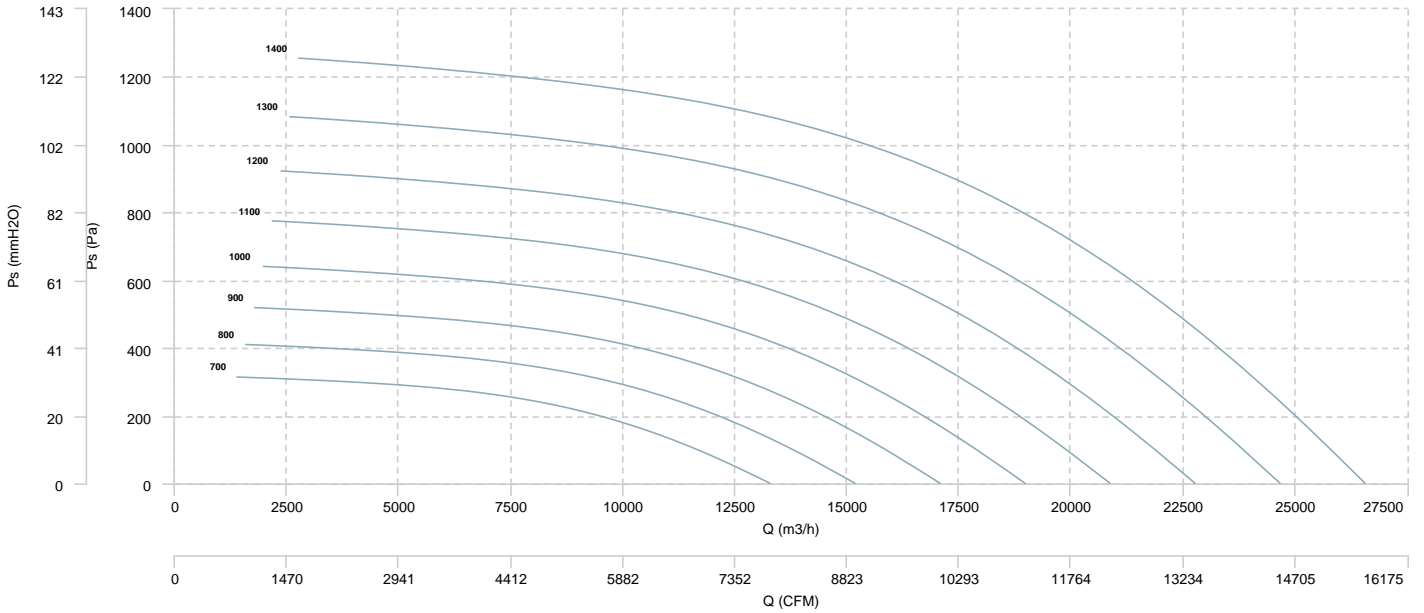


AIR FLOW - MECHANICAL POWER

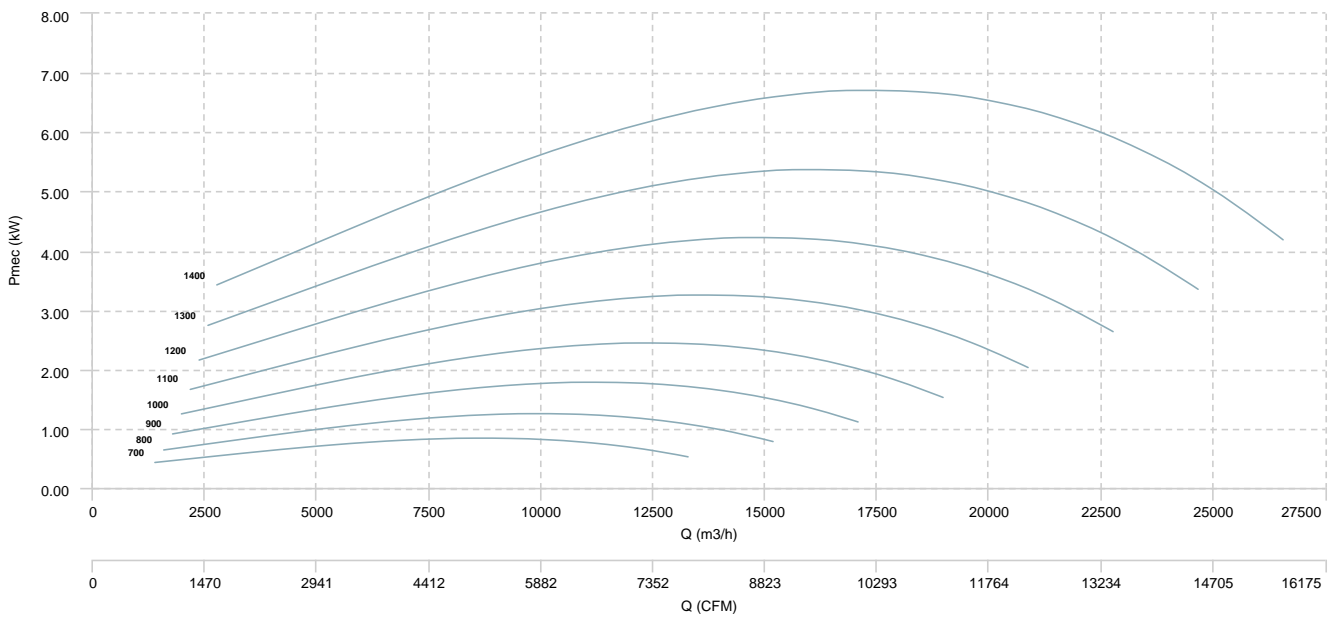


BOX RLT 710

AIR FLOW - PRESSURE



AIR FLOW - MECHANICAL POWER



Sound data

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
BOX RLT 400 (900 RPM)	Inlet	46	54	56	60	60	57	53	51	66
BOX RLT 450 (900 RPM)	Inlet	49	57	62	65	66	64	61	58	71
BOX RLT 500 (900 RPM)	Inlet	52	60	65	68	69	67	64	61	75
BOX RLT 560 (700 RPM)	Inlet	49	57	61	65	66	64	61	58	71
BOX RLT 630 (700 RPM)	Inlet	52	60	65	68	69	68	64	62	75
BOX RLT 710 (700 RPM)	Inlet	57	65	70	73	74	72	69	66	79

Notes:

* To calculate the sound power level at different rpm from those indicated above, use the following formula:

$$Lw \text{ dB(A)}_{rpmA} = Lw \text{ dB(A)}_{rpmB} + 52.5 \cdot \log_{10} \frac{rpmA}{rpmB}$$